

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/707,121

DATE: 06/22/2001

TIME: 14:31:35

Input Set : A:\LEX-0083-USA.SEQLIST.txt

Output Set : N:\CRF3\06222001\I707121.raw

ENTERED

4 <110> APPLICANT: Mathur, Brian  
 5 Turner, C. Alexander Jr.  
 6 Abuin, Alejandro  
 7 Friedrich, Glenn  
 8 Zambrowicz, Brian  
 9 Sands, Arthur T.

11 <120> TITLE OF INVENTION: Novel Human Kinase Protein and  
 12 Polynucleotides Encoding the Same

15 <130> FILE REFERENCE: LEX-0083-USA

C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/707,121

C--> 17 <141> CURRENT FILING DATE: 2000-11-06

17 <150> PRIOR APPLICATION NUMBER: US 60/164,289

18 <151> PRIOR FILING DATE: 1999-11-08

20 <160> NUMBER OF SEQ ID NOS: 2

22 <170> SOFTWARE: FastSEQ for Windows Version 4.0

24 <210> SEQ ID NO: 1

25 <211> LENGTH: 2682

26 <212> TYPE: DNA

27 <213> ORGANISM: homo sapiens

29 <400> SEQUENCE: 1

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31 catgatgttt gtggaagcaa tggacttcct ctcacaccaa attccatcaa aattttagg	120
32 cgctttcaaa tccttaaaac catcacccat ccagactct gccagtatgt ggatatttct	180
33 aggggaaagc atgaacgact agtggctgtg gctgaacatt gtgaacgtag tctggaagac	240
34 ttgcttcgag aaaggaaacc tgtgagctgt tcaacggttt tgtgtatagc atttgaggtt	300
35 cttcagggtt tgcagtatat gaacaaacat ggtatagtac acagggcatt gtctcctcat	360
36 aatatcctgt tggaccgaaa gggacatatt aaattggcta aatttggact ttatcacatg	420
37 acagctcatg gtgatgatgt tgatttcccc atagggtatc cctcgtactt ggcccttgag	480
38 gtaattgcac aggggaatttt caaaaccact gatcacatgc caagtaaaaa accattgcct	540
39 tctggcccca aatcagatgt atggtctctt ggaatcattt tatttgagct ttgtgtggga	600
40 agaaaattat ttcagagctt ggatatttct gaaagactaa aatttttgct tactttggat	660
41 tgtgtagatg acactttaat agttctggct gaagagcatg gttgtttgga cattataaag	720
42 gagcttcctg aaactgtgat agatcttttg aataagtgc ttaccttcca tccttctaag	780
43 aggccaaacc cagatgaatt aatgaaggac aaagtattca gtgaggtatc acctttatat	840
44 acccccttta ccaaacctgc cagtctgttt tcattctctc tgagatgtgc tgatttaact	900
45 ctgcttgagg atatcagtcg gttgtgtaaa gatataaata atgattacct ggcagaaaga	960
46 tctattgaag aagtgtatta ctttgggtgt ttggctggag gtgacttgga gaaagagctt	1020
47 gtcaacaagg aaatcattcg atccaaacca cctacttgca cactcccaa tttctcttt	1080
48 gaggatggtg aaagcttttg acaaggtcga gatagaagct cgcttttaga tgataccact	1140
49 gtgacattgt cgttatgcca gctaagaaat agattgaaag atgttggtgg agaagcattt	1200
50 taccatttac ttgaagatga ccagtctaat ttacctcatt caaacagcaa taatgagttg	1260
51 tctgcagctg ccacgtccc tttaatcctc agagagaagg atacagagta ccaactaaat	1320
52 gaattatctc tcttcgacag gctgctaaag gcttatccat ataaaaaaaa ccaaatctgg	1380
53 aaagaagcaa gagttgacat tctcctctct atgagaggtt taacctgggc tgctctcttg	1440
54 ggagttgagg gagctattca tgccaagtac gatgcaattg ataaagacac tccaattcct	1500
55 acagatagac aaattgaagt ggatattcct cgctgtcatc agtacgatga actgttatca	1560
56 tcaccagaag gtcatgcaaa atttaggcgt gtattaaaaa cctgggtagt gtctcatccc	1620

#5

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57 gatcttgtgt attggcaagg tcttgactca ctttgtgctc cattcctata tctaaacttc 1680
58 aataatgaag ccttggttta tgcattgtatg tctgctttta tccccaaata cctgtataac 1740
59 ttcttctttaa aagacaaactc acatgtaata caagagtatc tgaactgtctt ctctcagatg 1800
60 attgcatttc atgatccaga gctgagtaat catctcaatg agattgggtt cattccagat 1860
61 ctctatgccca tcccttgggtt tcttaccatg tttactcatg tatttccact acacaaaatt 1920
62 tttccacctct gggataacctt actacttggg aattcctctt tcccattctg taittgagta 1980
63 gcaattcttc agcagctgcy ggaccggctt ttggctaata gctttaatga gtgtattctt 2040
64 ctcttctccg atttaccaga aattgacatt gaacgctgtg tgagagaatc tatcaacctg 2100
65 ttttgttgga ctctaaaag tgctacttac agacagcatg ctcaacctcc aaagccatct 2160
66 tctgacagca gtggaggcag aaatttcggca ccttatttct ctgctgagtg tccagatcct 2220
67 ccaaagacag atctgtcaag agaattccatc ccattaaatg acctgaagtc agaagtatca 2280
68 ccacggattt cagcagagga cctgattgac ttgtgtgagc tcacagtgc aggccacttc 2340
69 aaaacaccca gcaagaaaac aaagtccagt aaaccaaagc tcttgggtgt tgacatccgg 2400
70 aatagtgaag actttattcg tggtcacatt tcaggaagca tcaacattcc attcagtct 2460
71 gccttcaactg cagaagggga gcttaccacg ggccttaca ctgctatgct ccagaacttc 2520
72 aaaggggaagg tcattgtcat cgtggggcat gtggcaaac acacagctga gtttgcagct 2580
73 cacttgtga agatgaaata tccaagaatc tgtattctag atggtggcat taataaaata 2640
74 aagccaacag gcctctcacc catcccatct cctcaaatat ga 2682
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 893
78 <212> TYPE: PRT
79 <213> ORGANISM: homo sapiens
81 <400> SEQUENCE: 2
82 Met Phe Pro Leu Lys Asp Ala Glu Met Gly Ala Phe Thr Phe Phe Ala
83 1 5 10 15
84 Ser Ala Leu Pro His Asp Val Cys Gly Ser Asn Gly Leu Pro Leu Thr
85 20 25 30
86 Pro Asn Ser Ile Lys Ile Leu Gly Arg Phe Gln Ile Leu Lys Thr Ile
87 35 40 45
88 Thr His Pro Arg Leu Cys Gln Tyr Val Asp Ile Ser Arg Gly Lys His
89 50 55 60
90 Glu Arg Leu Val Val Val Ala Glu His Cys Glu Arg Ser Leu Glu Asp
91 65 70 75 80
92 Leu Leu Arg Glu Arg Lys Pro Val Ser Cys Ser Thr Val Leu Cys Ile
93 85 90 95
94 Ala Phe Glu Val Leu Gln Gly Leu Gln Tyr Met Asn Lys His Gly Ile
95 100 105 110
96 Val His Arg Ala Leu Ser Pro His Asn Ile Leu Leu Asp Arg Lys Gly
97 115 120 125
98 His Ile Lys Leu Ala Lys Phe Gly Leu Tyr His Met Thr Ala His Gly
99 130 135 140
100 Asp Asp Val Asp Phe Pro Ile Gly Tyr Pro Ser Tyr Leu Ala Pro Glu
101 145 150 155 160
102 Val Ile Ala Gln Gly Ile Phe Lys Thr Thr Asp His Met Pro Ser Lys
103 165 170 175
104 Lys Pro Leu Pro Ser Gly Pro Lys Ser Asp Val Trp Ser Leu Gly Ile
105 180 185 190
106 Ile Leu Phe Glu Leu Cys Val Gly Arg Lys Leu Phe Gln Ser Leu Asp
107 195 200 205

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```

108 Ile Ser Glu Arg Leu Lys Phe Leu Leu Thr Leu Asp Cys Val Asp Asp
109      210      215      220
110 Thr Leu Ile Val Leu Ala Glu Glu His Gly Cys Leu Asp Ile Ile Lys
111 225      230      235      240
112 Glu Leu Pro Glu Thr Val Ile Asp Leu Leu Asn Lys Cys Leu Thr Phe
113      245      250      255
114 His Pro Ser Lys Arg Pro Thr Pro Asp Glu Leu Met Lys Asp Lys Val
115      260      265      270
116 Phe Ser Glu Val Ser Pro Leu Tyr Thr Pro Phe Thr Lys Pro Ala Ser
117      275      280      285
118 Leu Phe Ser Ser Ser Leu Arg Cys Ala Asp Leu Thr Leu Pro Glu Asp
119      290      295      300
120 Ile Ser Gln Leu Cys Lys Asp Ile Asn Asn Asp Tyr Leu Ala Glu Arg
121 305      310      315      320
122 Ser Ile Glu Glu Val Tyr Tyr Leu Trp Cys Leu Ala Gly Gly Asp Leu
123      325      330      335
124 Glu Lys Glu Leu Val Asn Lys Glu Ile Ile Arg Ser Lys Pro Pro Ile
125      340      345      350
126 Cys Thr Leu Pro Asn Phe Leu Phe Glu Asp Gly Glu Ser Phe Gly Gln
127      355      360      365
128 Gly Arg Asp Arg Ser Ser Leu Leu Asp Asp Thr Thr Val Thr Leu Ser
129      370      375      380
130 Leu Cys Gln Leu Arg Asn Arg Leu Lys Asp Val Gly Gly Glu Ala Phe
131 385      390      395      400
132 Tyr Pro Leu Leu Glu Asp Asp Gln Ser Asn Leu Pro His Ser Asn Ser
133      405      410      415
134 Asn Asn Glu Leu Ser Ala Ala Ala Thr Leu Pro Leu Ile Ile Arg Glu
135      420      425      430
136 Lys Asp Thr Glu Tyr Gln Leu Asn Arg Ile Ile Leu Phe Asp Arg Leu
137      435      440      445
138 Leu Lys Ala Tyr Pro Tyr Lys Lys Asn Gln Ile Trp Lys Glu Ala Arg
139      450      455      460
140 Val Asp Ile Pro Pro Leu Met Arg Gly Leu Thr Trp Ala Ala Leu Leu
141 465      470      475      480
142 Gly Val Glu Gly Ala Ile His Ala Lys Tyr Asp Ala Ile Asp Lys Asp
143      485      490      495
144 Thr Pro Ile Pro Thr Asp Arg Gln Ile Glu Val Asp Ile Pro Arg Cys
145      500      505      510
146 His Gln Tyr Asp Glu Leu Leu Ser Ser Pro Glu Gly His Ala Lys Phe
147      515      520      525
148 Arg Arg Val Leu Lys Ala Trp Val Val Ser His Pro Asp Leu Val Tyr
149      530      535      540
150 Trp Gln Gly Leu Asp Ser Leu Cys Ala Pro Phe Leu Tyr Leu Asn Phe
151 545      550      555      560
152 Asn Asn Glu Ala Leu Ala Tyr Ala Cys Met Ser Ala Phe Ile Pro Lys
153      565      570      575
154 Tyr Leu Tyr Asn Phe Phe Leu Lys Asp Asn Ser His Val Ile Gln Glu
155      580      585      590
156 Tyr Leu Thr Val Phe Ser Gln Met Ile Ala Phe His Asp Pro Glu Leu

```

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```

157          595          600          605
158 Ser Asn His Leu Asn Glu Ile Gly Phe Ile Pro Asp Leu Tyr Ala Ile
159          610          615          620
160 Pro Trp Phe Leu Thr Met Phe Thr His Val Phe Pro Leu His Lys Ile
161 625          630          635          640
162 Phe His Leu Trp Asp Thr Leu Leu Leu Gly Asn Ser Ser Phe Pro Phe
163          645          650          655
164 Cys Ile Gly Val Ala Ile Leu Gln Gln Leu Arg Asp Arg Leu Leu Ala
165          660          665          670
166 Asn Gly Phe Asn Glu Cys Ile Leu Leu Phe Ser Asp Leu Pro Glu Ile
167          675          680          685
168 Asp Ile Glu Arg Cys Val Arg Glu Ser Ile Asn Leu Phe Cys Trp Thr
169          690          695          700
170 Pro Lys Ser Ala Thr Tyr Arg Gln His Ala Gln Pro Pro Lys Pro Ser
171 705          710          715          720
172 Ser Asp Ser Ser Gly Arg Ser Ser Ala Pro Tyr Phe Ser Ala Glu
173          725          730          735
174 Cys Pro Asp Pro Pro Lys Thr Asp Leu Ser Arg Glu Ser Ile Pro Leu
175          740          745          750
176 Asn Asp Leu Lys Ser Glu Val Ser Pro Arg Ile Ser Ala Glu Asp Leu
177          755          760          765
178 Ile Asp Leu Cys Glu Leu Thr Val Thr Gly His Phe Lys Thr Pro Ser
179          770          775          780
180 Lys Lys Thr Lys Ser Ser Lys Pro Lys Leu Leu Val Val Asp Ile Arg
181 785          790          795          800
182 Asn Ser Glu Asp Phe Ile Arg Gly His Ile Ser Gly Ser Ile Asn Ile
183          805          810          815
184 Pro Phe Ser Ala Ala Phe Thr Ala Glu Gly Glu Leu Thr Gln Gly Pro
185          820          825          830
186 Tyr Thr Ala Met Leu Gln Asn Phe Lys Gly Lys Val Ile Val Ile Val
187          835          840          845
188 Gly His Val Ala Lys His Thr Ala Glu Phe Ala Ala His Leu Val Lys
189          850          855          860
190 Met Lys Tyr Pro Arg Ile Cys Ile Leu Asp Gly Gly Ile Asn Lys Ile
191 865          870          875          880
192 Lys Pro Thr Gly Leu Leu Thr Ile Pro Ser Pro Gln Ile
193          885          890

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/707,121

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Input Set : A:\LEX-0083-USA.SEQLIST.txt

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L:17 M:270 C: Current Application Number differs, Replaced Current Application No

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date